

# From sourcecode to a running M5Stack on Windows

Mittwoch, 29. Dezember 2021 11:15

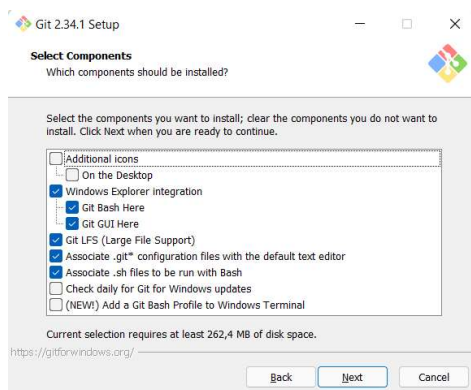
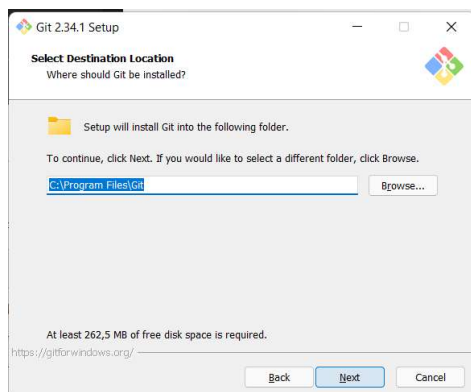
First of all, Visual Studio Code, also named VSCode has nothing to do with Microsoft Visual Studio!

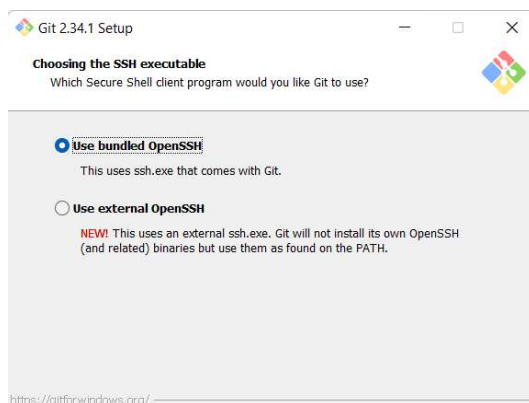
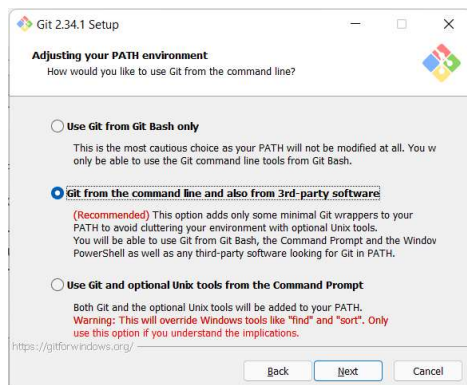
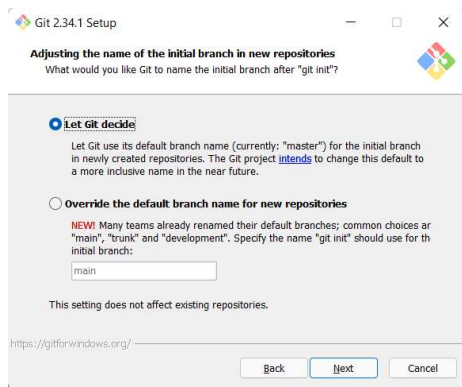
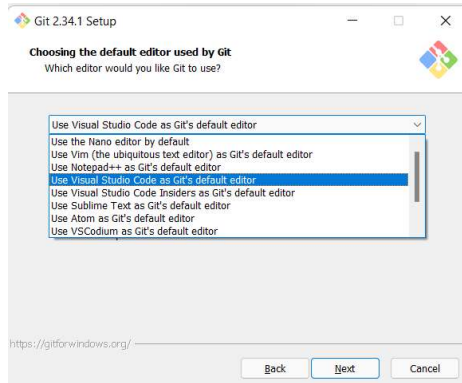
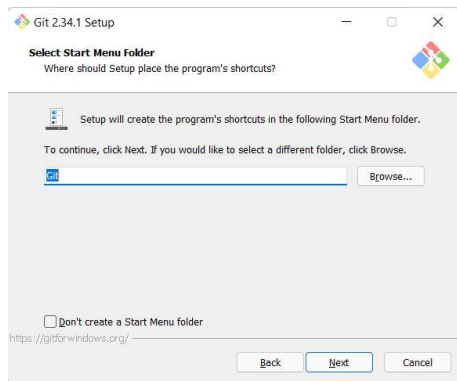
Download and install VSCode:

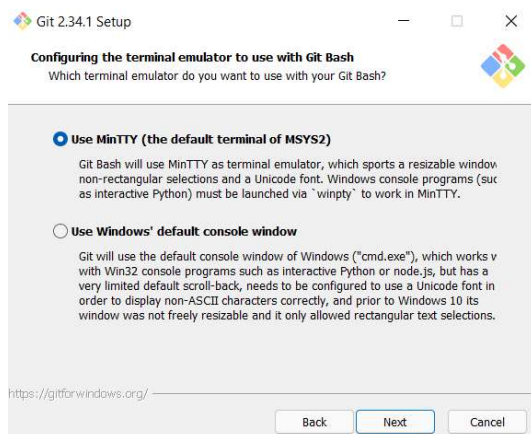
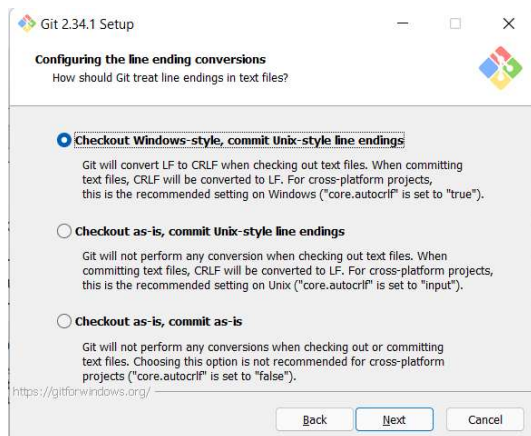
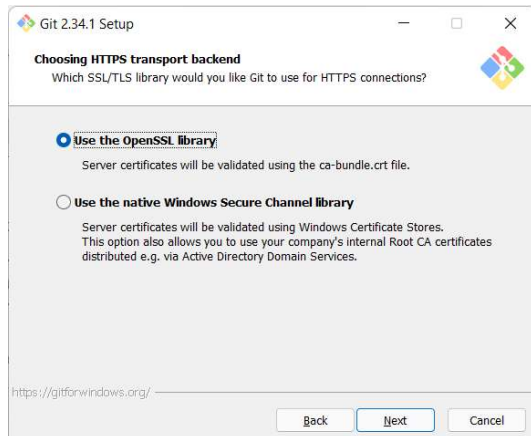
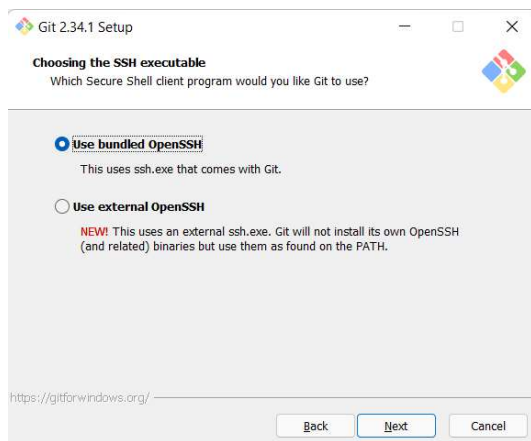
<https://code.visualstudio.com/download>

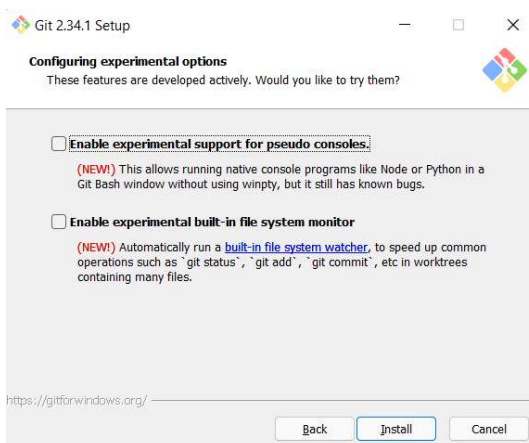
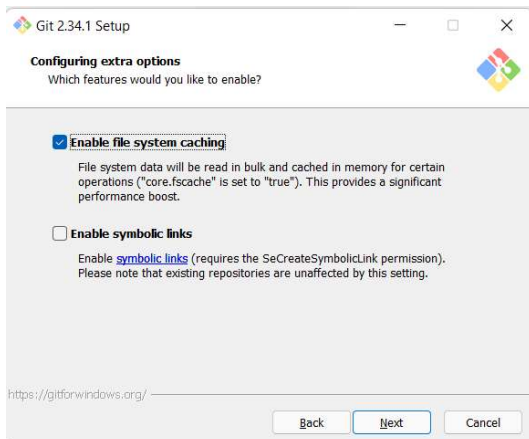
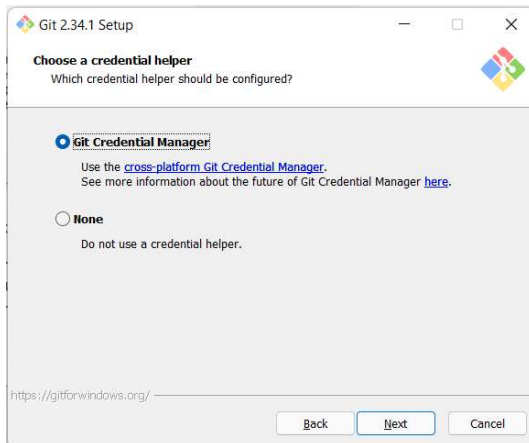
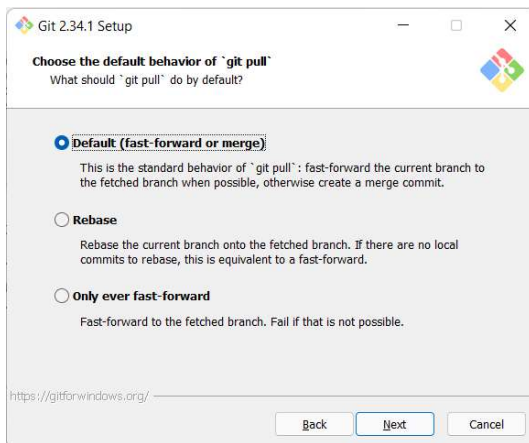
Download and install GIT:

<https://git-scm.com/>

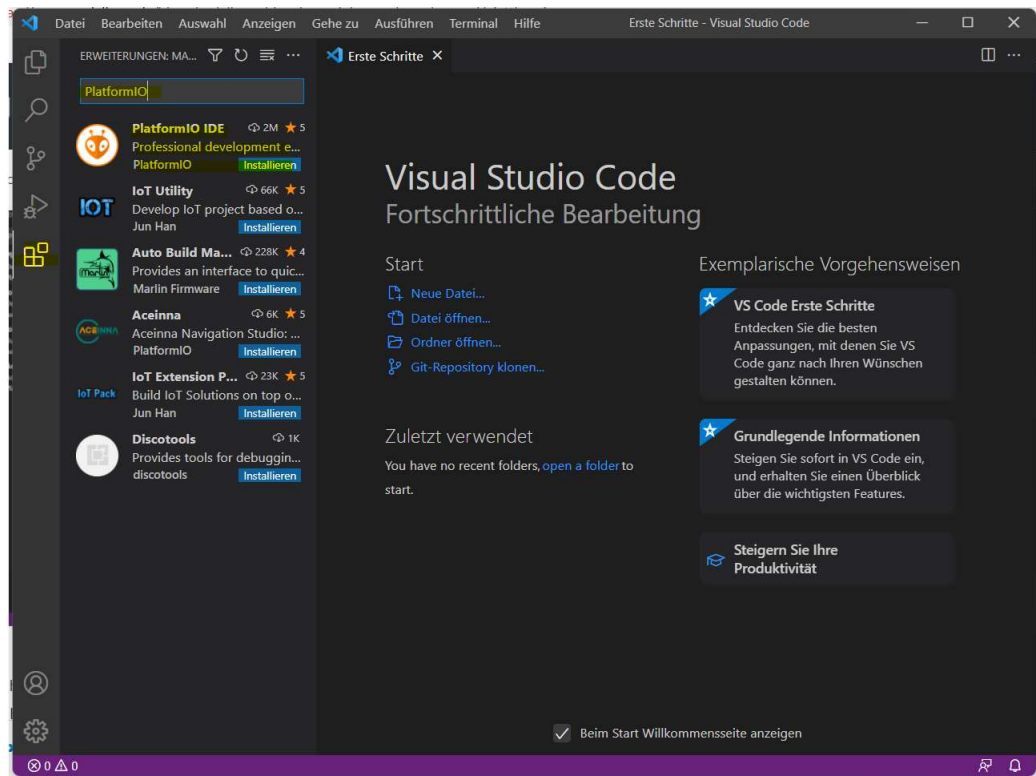






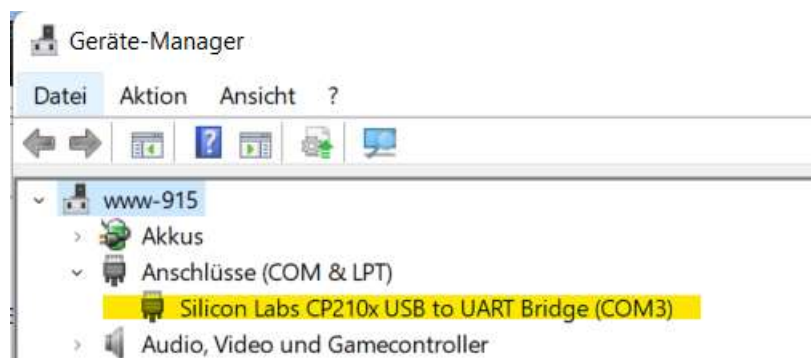


Start VSCode and install the PlatformIO Extension:

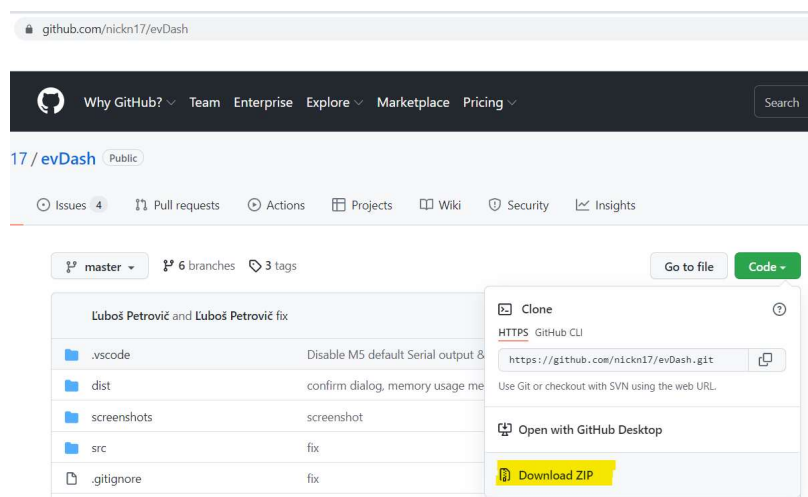


Download and install the USB to UART driver (CP2104). It can be downloaded here: <https://shop.m5stack.com/pages/download>

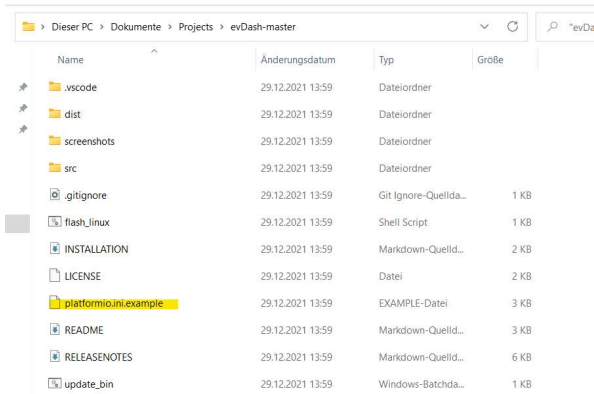
If it is installed, figure out which COM port it uses, we need this later:



Download the evDash source code from <https://github.com/nickn17/evDash>



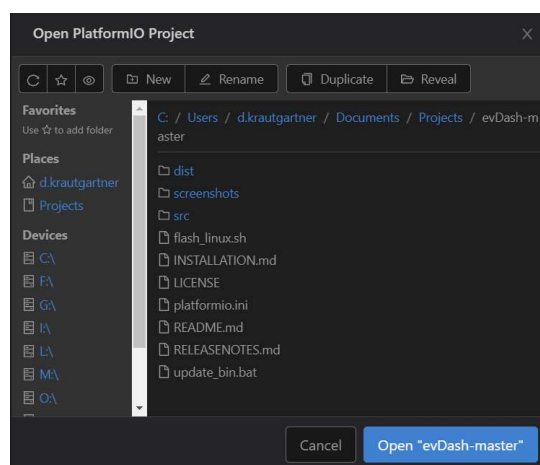
Extract the ZIP Archiv and rename the file platformio.ini.example to platformio.ini



Open VSCode, klick on Platformio -> PIO Home -> Open -> Open Project:



Navigate to the folder where platformio.ini is stored and click on "Open evdash-master":



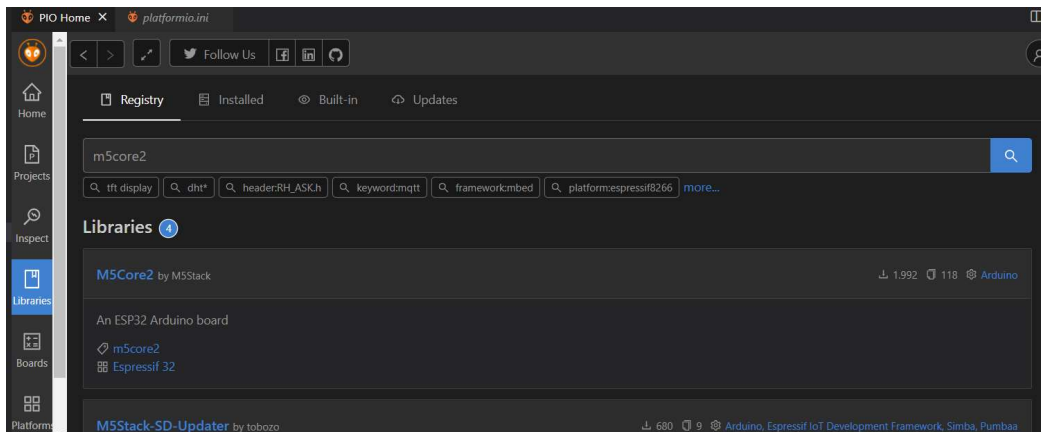
If the project is open you see the platformio.ini. You have to set the right COM Port:

```
upload_protocol = esptool
upload_port = COM3
upload_speed = 921600
```

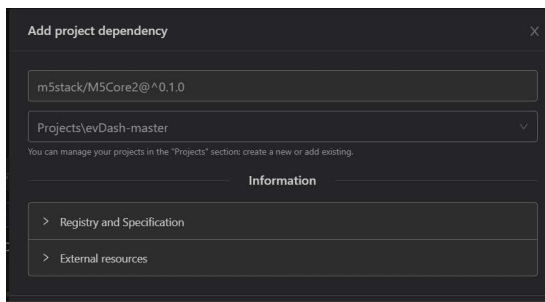
Save the file and restart VSCode.

The first time I tried to compile the source code, it did not work because the M5Core2 library was missing.

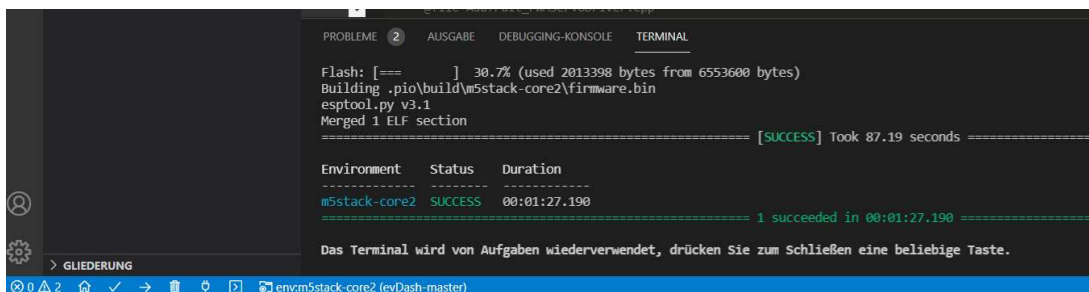
I had to add it here:



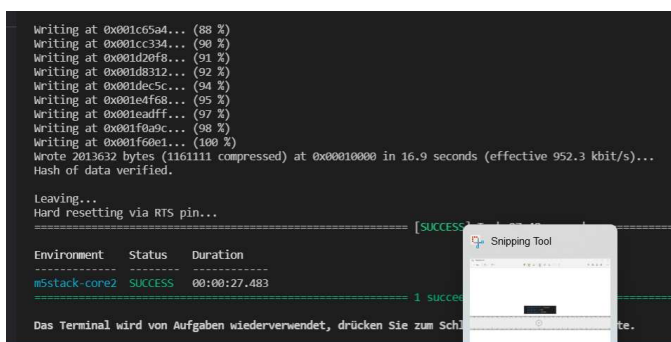
Click on "M5Core2":  
Click on "Add to Project":



Now we are ready to go. In the blue line on the bottom we can select the right environment.  
Click on env: In my case I selected m5stack-core2.  
Then click on the checkmark. The output should look like this:



When compiling was successful, we can flash our M5Stack by clicking on the arrow right from the checkmark in the blue line:



Before you use the terminal I recommend to do the following settings on the M5stack:

Menu -> Adapter -> CAN

(If BLE is selected serial console does not work and device reboots every time you try to type.)



Menu -> others -> Debug level "Net"

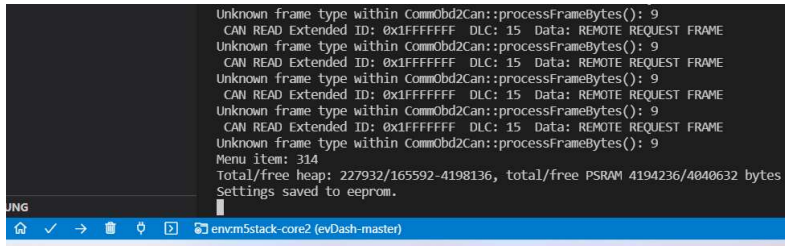
(other debug levels create very much output...)

Now you can connect to the device via terminal. On the blue line in VSCode click on the plug sign (serial monitor) and you will see the output from the device.

Now we can do some settings via terminal:

**You don't see what you type!**

In some cases you see a response. For example after you typed "saveSettings" you will get "Settings saved to eeprom"

A screenshot of a terminal window with a dark background. The text is white and shows several lines of CAN bus data, including 'Unknown frame type within CommObd2Can::processFrameBytes(): 9' and 'CAN READ Extended ID: 0x1FFFFFFF DLC: 15 Data: REMOTE REQUEST FRAME'. At the bottom, it says 'Menu item: 314' and 'Total/free heap: 227932/165592-4198136, total/free PSRAM 4194236/4040632 bytes'. The last line is 'Settings saved to eeprom.' The terminal is titled 'envzm5stack-core2 (evDash-master)'.

wifiSsid=MyWLANSSID  
wifiPassword=verysecret  
abrpApiToken=abc123  
saveSettings  
reboot

Then goto menu -> others -> Wifi -> Wifi enabled "on"

Now you should see the IP Address in the WLAN menu.

**It is always a good idea to have the terminal open for:**

saveSettings  
Reboot

If you want ABRP to work you have to set the following on the device:

others -> rem. Upload -> and set:  
Module Type wifi  
API Uload int. Off  
ABRP Upload int 10-120 sec.

**Don't forget to save!**